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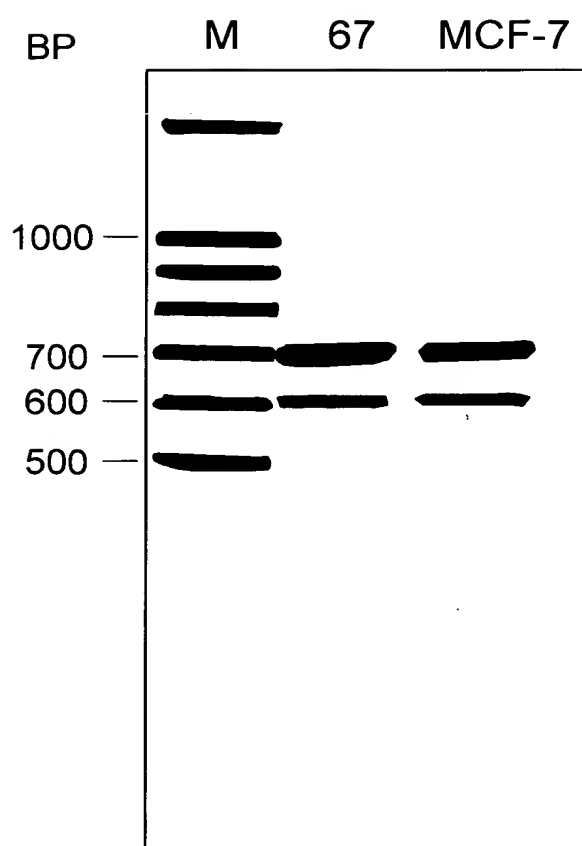


FIG. 1

1 ATGCAGTGGCCGCTGGGCCGGCGGTGGCGCTGGGCCGGCTGCTCCTGGCTGTCGACGCG 60
 M Q W A V G R W A W A A L L A V A A

 61 GTGCTGACCCAGGTCGTCTGGCTCTGGCTGGGTACGCAGAGCTTCGTCTCCAGCGCGAA 120
 V L T Q V V W L W L G T Q S F V F Q R E

 121 GAGATAGCGCAGTTGGCGCGCAGTACGTGGGTGGACACGAGCTGGCCCTTCTCTCGT 180
 E I A Q L A R Q Y A G L D H E L A F S R

 181 CTGATCGTGGAGCTGCGCGCGGTGCACCCAGGCCACGTGTCGCCGACGAGGAGCTGCAG 240
 L I V E L R R L H P G H V L P D E E L Q

 241 TGGGTGTTGTTGAATGCGGGTGGGTGGATGGCGGCCATGTGCCCTTCTGCACGCCCTCGCTG 300
 W V F V N A G G W M G A M C L L H A S L

 301 TCCGAGTATGTGCTCTTTCGGCACCGCCCTTGGGCTCCCGGGCCACTCGGGGGAGACG 360
 S E Y V L L F G T A L G S R G H S G E T

 361 GTAGTACACGGGCCCTGGTGAGGCAACAGCTGTGGAGTGGGGGCCCAACACATGGATGGTG 420
 V V H G P G E A T A V E W G P N T W M V

 421 GAGTACGGCCGGCGTCATCCCATCCACCCTGGCCCTTCGCGCTGGCCGACACTGTCTTC 480
 E Y G R G V I P S T L A F A L A D T V F

 481 AGCACCAGGACTTCCTCACCCCTCTTCTATACTCTTCGCTCCTATGCTCGGGCCCTCCGG 540
 S T Q D F L T L F Y T L R S Y A R G L R

 541 CTTGAGCTCACCACTACCTCTTTGGCCAGACCCCTTGA 579
 L E L T T Y L F G Q D P *

FIG. 2

1	MQWAVGRRWAAALLLAVAAVL	TQVWVLWLG	TQSFVFQREEIAQLARQYA	50
1	MQWAVGRRWAAALLLAVAAVL	TQVWVLWLG	TQSFVFQREEIAQLARQYA	50
51	GLDHELAFSRLIVELRRLHPGHVLP	DEELQWVFVNAGWM	<u>GAMCLLHASL</u>	100
51	GLDHELAFSRLIVELRRLHPGHVLP	DEELQWVFVNAGWM	<u>GAMCLLHASL</u>	100
101	<u>SEYVLLFGTALGSRGHS</u>	GRYWAEISDTII	SGTFHQWREGTTKSEVFYPGE	150
101	<u>SEYVLLFGTALGSRGHS</u>	(117)	[31 AA WERE DELETED] GE	119
151	TVVHGPGEATAVEWGPNTWMVEYGRGVIP	STLAFALADTVFSTQD	FLTLF	200
120	TVVHGPGEATAVEWGPNTWMVEYGRGVIP	STLAFALADTVFSTQD	FLTLF	169
201	YTLRSYARGRLRLT	TYLFGQDP	223 AA HUMAN σ_1 RECEPTOR PROTEIN	
170	YTLRSYARGRLRLT	TYLFGQDP	192 AA HUMAN $\sigma_{1\beta}$ RECEPTOR PROTEIN	

FIG. 3

FOO240" 69DE2860

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1  ATCCCGTGGCGCGGACGGCGGTGGCAATGGATCACCTGATTCTGACTATTATCGCA  60
   M P W A A G R R W A W I T L I L T I I A

61  GTGCTGATCCAGCGCCTGTTGTGGTGGGCACTCAAAACTTCGTCTCTAGAGAA  120
   V L I Q A A W L W L G T Q N F V F S R E

121 GAAATAGCGCAGCTTGCTCGACAGTATCGGGGCTGGACCATGAGCTTGCCTTCTCTCGG  180
   E I A Q L A R Q Y A G L D H E L A F S R

181 CTGATCGTGGAGCTGCGGAGGCTGCACCCAGCCACGTGCTGCCGATGAGGAGCTGCAG  240
   L I V E L R R L H P G H V L P D E E L Q

241 TGGGTATTGTGAACGCGGGGCTGGATGGCGGCCATGTGTATTCTGCACGCCTCGCTG  300
   W V F V N A G G W M G A M C I L H A S L

301 TCTGAGTACGTGCTCTTCGGCACCGCCCTGGGCTCCCATGGCCATTCCGGGAGAGACA  360
   S E Y V L L F G T A L G S H G H S G E T

361 GTTGACACGGGCTGGAGAAGCAACGGCTCTGGAGTGGGACCAACACGTGGATGGTG  420
   V V H G P G E A T A L E W G P N T W M V

421 GAGTACGGCGGGGTATTCCGCTCTACCCCTGTTCTTTGCACTAGCCGACACCTTCTTC  480
   E Y G R G V I P S T L F F A L A D T F F

481 GGCACCCAGGACTACCTCACACTCTTCTATACCCCTTCGGGCCTATGCCGGGCGCTCCGG  540
   G T Q D Y L T L F Y T L R A Y A R G L R

541 CTTGAGCTTACCACCTACCTCTTTGGCCAAGACTCCTGA  579
   L E L T T Y L F G Q D S *

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FIG. 4

1 MPWAAGRRWAWITLILTIIAVLIQAAWLWLGTQNFVFSREEIAQLARQYA 50
 1 MPWAAGRRWAWITLILTIIAVLIQAAWLWLGTQNFVFSREEIAQLARQYA 50

 51 GLDHELAFSRLIVELRRLHPGHVLPDEELQWVFNAGGWMGAMCILHASL 100
 51 GLDHELAFSRLIVELRRLHPGHVLPDEELQWVFNAGGWMGAMCILHASL 100

 101 SEYVLLFGTALGSHGHSGRYWAEISDTIISGTFHQWKEGTTKSEVFYPGE 150
 101 SEYVLLFGTALGSHGHS (117) [31 AA WERE DELETED] GE 119

 151 TVVHGPGEATALEWGPNTWMVEYGRGVIPSTLFFALADTFFGTQDYLTLF 200
 120 TVVHGPGEATALEWGPNTWMVEYGRGVIPSTLFFALADTFFGTQDYLTLF 169

 201 YTLRAYARGRLRLTTLTYLFGQDS* 223 AA σ_1 RECEPTOR PROTEIN
 170 YTLRAYARGRLRLTTLTYLFGQDS* 192 AA $\sigma_{1\beta}$ RECEPTOR PROTEIN

FIG. 5

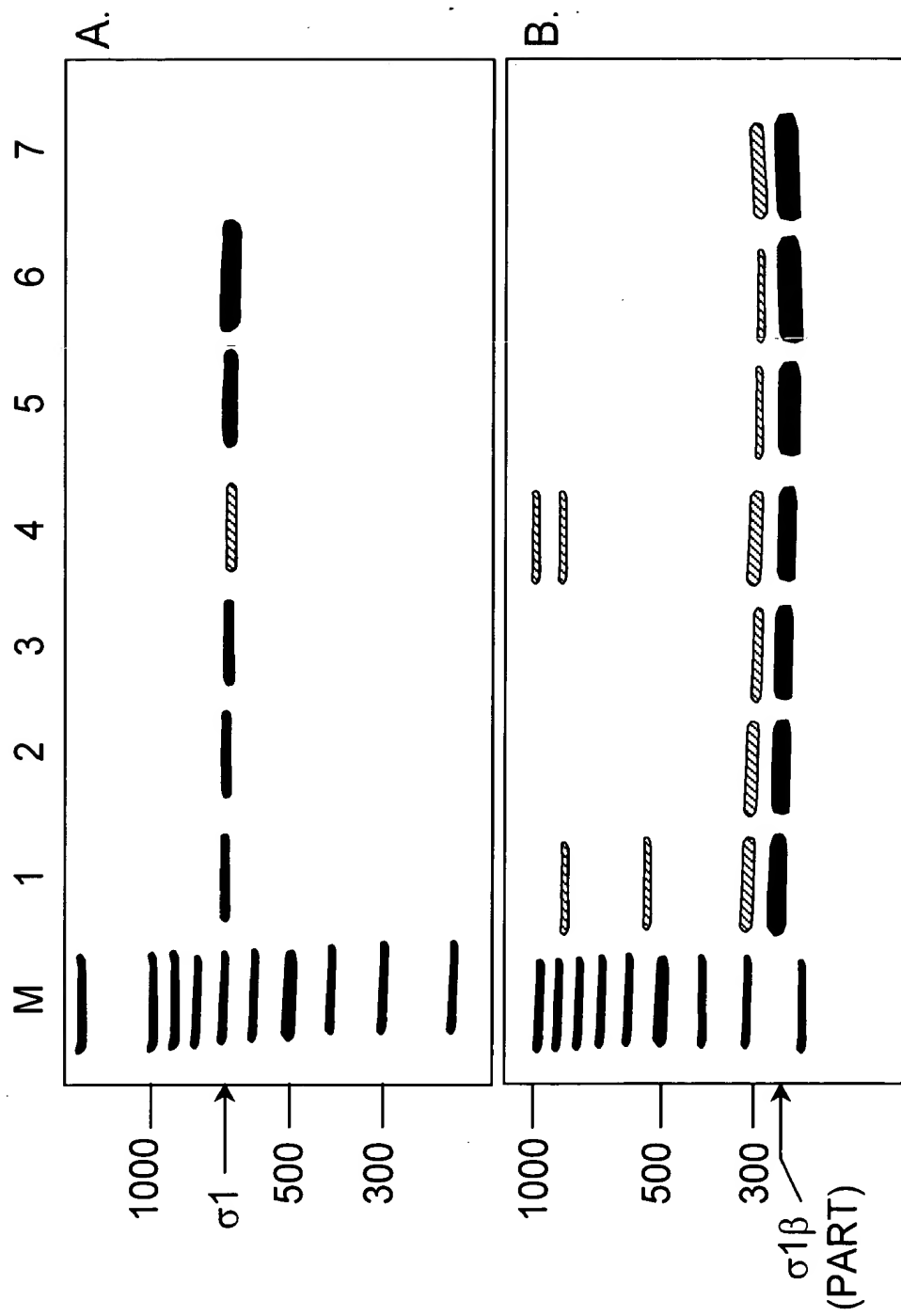
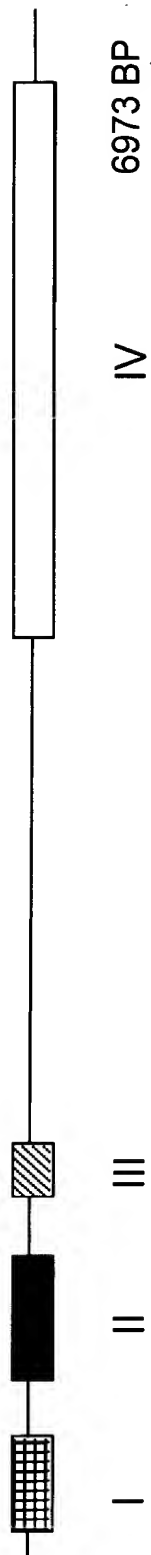


FIG. 6

SIGMA-1 RECEPTOR GENE

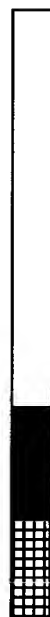


1641 BP (HUMAN)
1567 BP (MOUSE)

SIGMA-1RECEPTOR mRNA



HUMAN SIGMA-1 β RECEPTOR mRNA 1551 BP



MOUSE SIGMA-1 β RECEPTOR mRNA 1477 BP



FIG. 7